

Lower Passaic River Study Area
Information on GIS files in the Bathymetry_Surveys.gdb Geodatabase
Anchor QEA, LLC on Behalf of the Cooperating Parties Group
March 24, 2015

Information pertains to the polygon feature class: **groups_master_20150123_LPR**

This file contains polygons used to delineate interpolation boundaries for the 2010 concentration mapping described in Appendix J of the February 2015 Draft LPRSA RI/FS Report.

Relevant Fields:

group_inte – Interpolation grouping code (see below for key)

Shape_Area – Area in feet squared

Interpolation Grouping Key

G2 – No Deposition Since 1949

G3 – Mixed Depositional Since 1966

G4 – Highly Depositional Since 1966

LS – Left Shoal

RS – Right Shoal

NS_DN – Downstream Channel

NS_UP – Upstream Channel

SI_1 – Silt Deposit 1

SI_2 – Silt Deposit 2

SI_3 – Silt Deposit 3

SI_4 – Silt Deposit 4

SI_5 – Silt Deposit 5

SI_6_1 – Silt Deposit 6.1

SI_6_2 – Silt Deposit 6.2

SI_7 – Silt Deposit 7

Information pertains to the polygon feature class: **NavChannel_combined**

Navigational channel polygon that was shown on maps in the February 2015 Draft LPRSA RI/FS Report.

Relevant Fields:

Shape_length = length in ft

Shape_area = polygon area in square feet

Draft

Information pertains to the polygon feature class: **Passaic_Shoreline_RM0_17**

Passaic shoreline polygon from RM 0 to the Dundee Dam that was used for the mapping described in Appendix J of the February 2015 Draft LPRSA RI/FS Report

Relevant Fields:

Shape_length = length in ft

Shape_area = polygon area in square feet

Information pertains to the polygon feature class: **PJ_edit_shoal**

As described in Appendix J of the February 2015 Draft LPRSA RI/FS Report, this polygon shows the area that was moved from upstream channel to right shoal in Figure 15.

Relevant Fields:

Group_inte = Interpolation grouping code

Shape_length = length in ft

Shape_area = polygon area in square feet

Old_group = old interpolation grouping code

Information pertains to the polygon feature class: **PJ_Fig5_mixed_depositional**

As described in Appendix J of the February 2015 Draft LPRSA RI/FS Report, no 1966 bathymetry was available in this location. This polygon (at RM 3.75) was assigned to the adjoining Mixed Depositional Since 1966 group (Figure 5) on the basis of professional judgment. This area is shown in Figure 5 and has two characteristics consistent with other Mixed Depositional areas: it is located on an outer bend of the channel and contains an elevated surface sediment 2,3,7,8-TCDD concentration (4,900 ng/kg).

Relevant Fields:

Shape_length = length in ft

Shape_area = polygon area in square feet

Note = brief description of polygon

Information pertains to the point feature class: **PJ_non_centroid_coords**

This layer shows the sampling locations and centroid for location 12A-0427 from Figure 14 in Appendix J of the February 2015 Draft LPRSA RI/FS Report.

Relevant Fields:

Draft

LOCATIONID – Sample Location ID
STUDYID – Sampling program name from AQ database
YEAR_ – Year sampled
Easting – easting in NAD83 state plane NJ ft
Northing – northing in NAD83 state plane NJ ft
Centroid – 0 = actual location, 1 = centroid location
Sys_loc_code = unique identifier for location
Comment = notes about location

Information pertains to the polygon feature class: **PJ_silt_expansion**

As described in Appendix J of the February 2015 Draft LPRSA RI/FS Report, this layer contains polygons showing locations where 2005 SSS silt areas were expanded or new silt areas were created based on probing and percent fines data.

Relevant Fields:

Shape_length = length in ft
Shape_area = polygon area in square feet

Information pertains to the point feature class: **pts_20150204_TCDD_TePCB_Hg**

This file has the point data used to generate the 2010 dataset concentration interpolations. The 2010 dataset includes data sampled between 2005-2013. The surface (layer A) data correspond to the contaminant mapping methodology described in Appendix J of the February 2015 Draft LPRSA RI/FS Report. Within this file duplicates have already been averaged (there is no flag for duplicates in this file). For subsurface data, length-weighted averages were calculated for each layer in instances where a core's segmentation scheme differed from the depth intervals used for the mapping.

Relevant Fields:

STUDYID – Sampling program name from AQ database
RI_StudyID – Name of sampling program used in RI report
YEAR_ – Year sampled
LOCATIONID – Sample Location ID
DEPTHCLASS – Depth layer of interpolations (A, B, C, D, or E; Key Below)
ANL_SHORT_NAME – Contaminant name
XCOORD – x coordinate, NJ State Plane Feet
YCOORD – y coordinate, NJ State Plane Feet
RES_NGKG – Concentration, ng/kg
RIVERMILE – Approximate river mile location
GROUP_INTE – Interpolation grouping code (see below for key)

Draft

CALC_TOTALPCB – Flag for if Te-PCB value was estimated from Total PCB concentration. Used for samples where only Total PCB was reported. Value of 34% of measured Total PCB was used for Te-PCB. Value was determined from regression analysis.

Upper_Depth – Upper depth for interpolation layer, Feet

Lower_Depth – Lower depth for interpolation layer, Feet

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SI_7 – Silt Deposit 7

“DEPTHCLASS” Key

A: 0-0.5 feet

B: 0.5-1.5 feet

C: 1.5-2.5 feet

D: 2.5-3.5 feet

E: 3.5-5.5 feet